

State of California  
Department of Water Resources  
State Water Resources Control Board  
Department of Health Services

2002 RECYCLED WATER TASK FORCE  
MINUTES OF  
3 JUNE 2002 MEETING

**Meeting Time and Location**

2:00 pm-4:30 pm, 3 June 2002, Shore Room, Manhattan Beach Marriott Hotel, 1400 Parkview Avenue, Manhattan Beach, California.

**Attendance**

Task Force Members:

Takashi Asano	Karen Furst (telephonic)	R. K. Spackman
Rich Atwater	Earle Hartling	Frances Spivy-Weber
Kirk Bone	Keith Israel	William J. Steele
Jerry D. Brown	Laura Johnson	William T. VanWagoner
Dan Carlson	Richard Katz	Bob Whitley
Bob S. Castle	Denise L. Kruger	John Withers (telephonic)
Herman C. Collins	Gary Lynch	Marguerite Young
Ane D. Deister	Rick Martin	
Gary Erbeck	Darryl G. Miller	
William R. Everest	Mansour M. Nasser	

Task Force Substitutes:

Tom Gohring for Patrick Wright  
Wendy Ridderbusch for Steve Hall  
Bob Hultquist for David P. Spath  
Luana Kiger for Jonas M. Minton  
John T. Morris for Phillip J. Pace  
Stuart L Posselt for Tom Morrison

Task Force Members Absent:

Kathy Fletcher  
Rex S. Hime  
Keith Lewinger  
Tim Ramirez  
Steve Shaffer

Invited Guests:

Kamyar Guivetchi, Manager, Statewide Water Planning, California Department of Water Resources

Facilitator:

H. Eric Schockman

Shorthand Reporter:

Nanci L. Grube

State Staff and Members of Public:

21 Persons (See attachment for complete list)

**Summary of Proceedings**

**A. Approval of 3 April 2002 Meeting Minutes**

The Chair of the Task Force, Richard Katz, Member of the State Water Resources Control Board, called the meeting to order. The first item of business was the review of the draft minutes of the 3 April 2002 Task Force meeting. There was discussion regarding the nature of the Public Education and Outreach Workgroup that had been decided upon. Katz acknowledged that the discussion on 3 April was confusing but that the decision was to create a full-fledged workgroup to address both outreach for the Task Force and the general subject of public education and outreach for water reclamation and reuse. There were no corrections to the draft minutes.

**B. Summary of Task Force Activities Since 3 April**

Fawzi Karajeh presented slides summarizing Task Force activities since the first meeting on 3 April 2002, the formation of workgroups, and schedules for the Task Force and the workgroups. The activities include:

1. Preparation of draft minutes of the 3 April 2002 meeting.
2. Preparation of a background information package.
3. Conduct of a public discussion session on 8 May 2002 in Monterey in conjunction with the Association of California Water Agencies conference. Thirty-four attended the session, including six Task Force members and substitutes, 23 members of the public, and state support staff.
4. Formation of workgroups.
5. Compilation of a draft recycled water glossary that will be provided to the Task Force.
6. Preparation of a database of 38 Task Force members and 97 interested parties.

7. Responded to 52 inquiries via e-mail or other communication. There were 5 requests from legislators or their staff to meet with them. There were six news media inquiries.
8. Launched Web site, including a home page for the Department of Water Resources Recycling and Desalination Branch and the Recycled Water Task Force.

He summarized comments expressed at the 8 May session (which are included in the 31 May 2002 draft of minutes of the session provided at the 3 June meeting). He also summarized the workgroups:

1. Public Education and Outreach: Chair, Jonas Minton; Co-chair, Herman Collins
2. Science and Health/Indirect Potable Reuse: Chair, Takashi Asano; Co-chair, David Spath
3. Plumbing Code/Cross Connection Control: Chair, Bob Hultquist; Co-chair, Bob Castle
4. Regulations and Permitting: Chair, Kathy Fletcher; Co-chair, Jerry Brown
5. CALFED: Chair, Patrick Wright; Co-chair, Diana Robles

He also addressed the schedule for the Task Force and workgroups. Workgroup reports (“white papers”) are due to be presented to the Task Force by 12 September 2002 for the Plumbing Code and Science and Health Workgroups and 19 November 2002 for the remaining workgroups. The Task Force will then evaluate the workgroup recommendations and decide the recommendations for the Task Force. The white papers will be assembled and redrafted as a draft report of the Task Force report to the Legislature. The draft will be subject to public comment and a hearing. After revision by the Task Force, it will also be subject to review by the Department of Water Resources and CALFED. The Task Force final report is due by 1 July 2003.

Draft minutes were provided of the Task Force public discussion session in Monterey on 8 May 2002.

There was discussion of having another public discussion session at the conference of the Public Officials for Water and Environmental Reform (POWER) on the 9<sup>th</sup> or 10<sup>th</sup> October. It was clarified that the Task Force desired this and that the staff were working with POWER to accomplish this.

There was discussion regarding whether a decision had been made on 3 April to create a separate economics workgroup. The conclusion was that no clear decision had been made but that subsequent discussions have raised the desire to have involvement beyond state staff in addressing economic issues. The Task Force agreed to establish an Economics Workgroup.

Luana Kiger noted that legal counsel have advised that our workgroups are subject to the Open Meeting Act, which requires 10-day notice before any workgroup meetings. Thus she stressed the need for advanced planning for meeting dates. She also described the staff's conception of the workgroups as the bodies to put forward the issues and the background material related to them and the staff role to pull together the workgroups' materials in cohesive form and asked whether this concept was consistent with the Task Force's. No objection was raised.

There was discussion of the charges of the workgroups. As noted above, it was agreed that the charge of the Public Education and Outreach Workgroup includes general subject of public education and outreach for water reclamation and reuse as well as opportunities for outreach for the Task Force. It was suggested that successful and unsuccessful projects be used as case studies to determine the elements of effective public education and outreach programs that could be a blueprint for others.

It was pointed out that the charge of the CALFED Workgroup as described in the handout emphasizes funding issues. Because CALFED has little funding, there were opinions that more emphasis should be placed on integrating CALFED with other programs in the state and looking for synergistic opportunities for achieving CALFED goals.

The issue of uniform application of statewide regulatory standards has been raised in previous meetings and was raised again as an important topic for the Regulations and Permitting Workgroup.

### **C. Overview of California Water Resources Needs**

Kamyar Guivetchi, Manager of Statewide Water Planning for the Department of Water Resources (DWR), presented slides (attached) and provided two handouts: a copy of his slides and a brochure called "California Water Plan Update 2003: Planning for the Future of California Water." His slides covered the goals of and the approach to developing the next update of the California Water Plan, which is DWR's Bulletin 160 series. The plan will identify a baseline using years 1998, 2000, and 2001 for wet, average, and dry season water demands. Water demand and supply scenarios will then be projected through 2050. An extensive stakeholder process, involving about 70 people in an advisory committee, is being used to develop the plan. A public draft of the update will be available in summer 2003 with final release by the end of 2003.

The presentation described the process of the update and did not provide any data on current supplies and demands or projections. A request was made that data be provided for the Task Force to substantiate the need for water reclamation and reuse in California and the role it will play in the mix of future sources of supply. While there is a goal in statutes that 1,000,000 acre-feet be reused in California annually by the year 2010, this number has no context. To assist DWR in obtaining this data related to water reuse in particular, it was pointed out that there have been major regional water reuse studies for Southern California and the San Francisco Bay Area and there are urban water management plans submitted by most water suppliers to DWR, which contain water reclamation elements. It was suggested that these data be summarized by DWR

for presentation to the Task Force at a future meeting to give an indication of projections as seen by local agencies.

#### **D. Science and Health/Indirect Potable Reuse Workgroup**

Dr Takashi Asano, Professor Emeritus of Civil and Environmental Engineering, University of California at Davis, and recipient of the 2001 Stockholm Water Prize, was introduced. He is Chair of the Science and Health/Indirect Potable Reuse Workgroup. As a basis for the work of the workgroup and its white paper, he wrote a background paper, "Science and Health, Workgroup Presentation and Discussions," a copy of which was provided to the Task Force. He gave a presentation consisting of the content of this paper. He addressed water quality issues and outlined present knowledge in areas of microbiological and chemical contaminants.

Asano commented on direct and indirect potable reuse. Given the public health and public acceptance issues related to direct potable reuse, the emphasis has been on other uses for recycled water, including indirect potable reuse, such as groundwater recharge. Still, there are public health concerns and these concerns overlap the concerns being addressed in the potable water supplies from freshwater sources or sources consisting of upstream wastewater discharges.

Asano highlighted the work of the Scientific Advisory Panel on Groundwater Recharge, which issued its report in 1987 and a research proposal by the University of California at Davis.

During discussion there was a suggestion that this workgroup address ways to motivate the development of new technology and to investigate the characteristics of different secondary treatment techniques and their effects on water quality as effluent or a pretreatment for tertiary treatment. Also, support was expressed for the University of California at Davis proposal as a means of providing a greater academic link to public policy.

#### **E. Public Comments**

John Morris provided copies of "Water Recycling 2000: California's Plan for the Future," September 1991. This report was jointly issued by the State Water Conservation Coalition Reclamation/Re-Use Task Force and the Bay Delta Reclamation Sub-Work Group. These committees incorporated a wide range of participants. They identified the impediments to water reuse and made recommendations for alternative solutions, similar to the objective of this Task Force. Morris suggested that the Task Force is in some sense developing an update of "Water Recycling 2000," and that this report deserved particular attention for the Task Force.

Ron Linsky emphasized that the economic value of recycled water is higher than its cost of production or price it can be sold for, that is, its market value as a water supply. He suggested that the Economics Workgroup consider this value. There was discussion that recycled water also has value to the extent that there is an avoided cost of providing the water from some other source.

Diana Robles raised the issue of the charge of the CALFED Workgroup and expressed support for renaming the committee. She felt the charge should be focusing on obstacles to getting funds

for funding programs and to getting funds effectively to recipients to construct projects. Others suggested that the focus should not be just on funding, but to include state-federal agency coordination and to develop state and federal leadership in expressing the importance of water recycling as a component of water resources. These other charges were agreed to.

Tom Richardson raised the issue of institutional barriers. Others responded that these are likely to be addressed in the Regulations and Permitting, Science and Health, or Plumbing Code Workgroups.

There was further discussion of the importance of public education and outreach to develop a general acceptance of water reuse that can withstand a negative newspaper headline or that provides a comfort level conducive to implementing projects.

#### **F. Next Meeting**

The next meeting will be on 12 July 2002 in San Jose. There will be presentations by the Plumbing Code/Cross Connection Control and the Public Education and Outreach Workgroups.

## 2002 RECYCLED WATER TASK FORCE ATTENDEES AT 3 JUNE 2002 MEETING

Takashi Asano	Professor Emeritus, Department of Civil and Environmental Engineering, University of California, Davis
Hossein Ashktorab	Water Use Efficiency Unit Manager, Santa Clara Valley Water District
Rich Atwater	Chief Executive Officer, Inland Empire Utilities Agency
Kirk Bone	Serrano Associates LLC
Jerry D. Brown	Director of Planning, Contra Costa Water District
Dan Carlson	Capital Projects Manager, Utilities Department, City of Santa Rosa
Bob S. Castle	Water Quality Manager, Marin Municipal Water District
Herman C. Collins	President Collins, Strategic Group, Inc.
Ane Deister	General Manager, El Dorado Irrigation District
Drew Downing	U. S. Army TACOM
Gary Erbeck	Director, Department of Environmental Health, San Diego County
William R. Everest	Associate General Manager, Orange County Water District
Karen Furst, M.D.	Health Officer, San Joaquin County Public Health Services
Kathryn Gies	West Yost & Associates
Tom Gohring	CALFED Bay-Delta Program
Nanci L. Grube	Certified Shorthand Reporter, Sylvia Becker & Associates, Inc.
Kamyar Guivetchi	Manager, Statewide Water Planning, California Department of Water Resources
Earle Hartling	Water Recycling Coordinator, Sanitation Districts of Los Angeles County
Bob Hultquist	Department of Health Services
Keith Israel	Manager, Monterey Regional Water Pollution Control Agency
Cecelia Jackson	Recycled Water Program Coordinator, Eastern Municipal Water District
Laura Johnson	Authority Manager, Dublin-San Ramon/East Bay Municipal Utility District Recycled Water Authority
Fawzi Karajeh	Department of Water Resources
Richard Katz	Board Member, California State Water Resources Control Board
Bob Kenton	Santa Clara Valley Water District
Luana Kiger	Department of Water Resources, Office of Water Use Efficiency
Denise L. Kruger	Vice President Customer Service Region II, Southern California Water Company
Ronald B. Linsky	Executive Director, National Water Research Institute
Gary R. Lynch	Vice President Water Quality, Park Water Company
Maria G. Mariscal	San Diego County Water Authority
Rick Martin	U. S. Bureau of Reclamation
Darryl G. Miller	General Manager, Central and West Basin Municipal Water Districts
Richard Mills	California State Water Resources Control Board
John T. Morris	Member, Board of Directors, Metropolitan Water District of Southern California
Rafael Mujeriego	Professor in Residence, Orange County Water District
Cheryl Muñoz	San Francisco Public Utilities Commission
Mansour M. Nasser	Water Utility Manager, San Jose Municipal Water System, City of San Jose
Hoover H. Ng	Water Quality Program Manager, Water Replenishment District of Southern California
Walt Pettit	California Urban Water Agencies
Wayne Pierson	California State Water Resources Control Board
Stuart Posselt	California Building Standards Commission
Robert M. Reed	Regional Director Business Development, Boyle Engineering Corporation
Melanie Richardson	Assistant Operation Officer, Santa Clara Valley Water Authority
Tom Richardson	Senior Vice President, Rains, Melton & Carella
Wendy Ridderbusch	State Legislative Advocate, Association of California Water Agencies
Diana Robles	California State Water Resources Control Board
H. Eric Schockman	University of Southern California
R. K. Spackman	Government Affairs Manager, Chevron Products Company

Frances Spivy-Weber	Executive Director, Mono Lake Committee
William Steele	Area Manager, Southern California Area Office, U. S. Bureau of Reclamation
Sue Stephenson	Dublin San Ramon Services District
William T. VanWagoner	Project Manager, East Valley Water Recycling Project, Los Angeles Department of Water and Power
Jose F. Vergara	Water Resources Management, Metropolitan Water District of Southern California
Bob Whitley	President, WateReuse Association, California Section
John B. Withers	Board Member, Santa Ana Regional Water Quality Control Board
Stefan Wuertz	Associate Professor, Civil and Environmental Engineering, University of California, Davis
Marguerite Young	California Program Director, California Clean Water Action



2002 RECYCLED WATER TASK FORCE  
LIST OF HANDOUT MATERIALS FOR 3 JUNE 2002 MEETING

1. The 2002 Recycled Water Task Force Meeting, June 3, 2002 Agenda
2. Department of Water Resources, "2002 Recycled Water Task Force Workgroup Charges", Draft 6/3/02
3. Department of Water Resources, "CALFED Workgroup of the 2002 Recycled Water Task Force," Draft May 31, 2002
4. Department of Water Resources, "Plumbing Code/Cross Connection Control Workgroup of the 2002 Recycled Water Task Force," Draft May 31, 2002
5. Department of Water Resources, "Public Education and Outreach Workgroup of the 2002 Recycled Water Task Force," Draft May 31, 2002
6. Department of Water Resources, "Science & health/Indirect Potable Reuse Workgroup of the 2002 Recycled Water Task Force," Draft May 31, 2002
7. Department of Water Resources, "Regulations & Permitting Workgroup of the 2002 Recycled Water Task Force," Draft May 31, 2002
8. "2002 Recycled Water Task Force, Meeting Dates," Draft May 31, 03 [sic, 2002]
9. "The 2002 Recycled Water Task Force's Work Schedule," no date
10. "The 2002 Recycled Water Task Force Proposed Timetable for the Task Force Workgroups," Draft June 2, 2002
11. "Task Force Issues for Consideration," Draft May 29, 2002
12. "2002 Recycled Water Task Force Minutes of 3 April 2002 Meeting," Draft 5/31/2002
13. "2002 Recycled Water Task Force Minutes of 8 May 2002 Public Discussion Session," Draft 5/31/2002
14. Department of Water Resources, "California Water Plan Update 2003: Planning for the Future of California Water" (Booklet), May 2002
15. "Water Plan Update 2003: A New Approach, Recycled Water Task Force, June 3, 2002," PowerPoint slide handout presented by Kamyar Guivetchi
16. Takashi Asano, "Science and Health, Workgroup Presentation and Discussions (3:15-4:15 pm)", June 3, 2002
17. State Water Conservation Coalition Reclamation/Re-use Task Force and Bay Delta Sub-Work Group, "Water Recycling 2000: California's Plan for the Future," printed by WateReuse Association, September 1991, including separate letter from Supervisor John K. Flynn and Sunne Wright PcPeak, State Water Conservation Coalition, November 1, 1991

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**2002 RECYCLED WATER TASK FORCE**

**June 3, 2002, 2:00 to 5:00 p.m.**  
**In Conjunction with 2002 Annual Water Reuse Research Conference**  
**Manhattan Beach Marriott Hotel**  
**1400 Parkview Avenue**  
**Manhattan Beach, California**

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**MEETING AGENDA**

*(Times are approximate)*

***Introduction (2:00-2:15)***

***Approval of April 3, 2002 Meeting Minutes (2:15-2:25)***

***Summary of Task Force Activities since April 3 (2:25 -2:55)***

- ♦ *Purpose and membership of workgroups*

***Overview of California Water Resources Needs (2:55-3:15)***

***Science and Health, ... Workgroup Presentation and Discussion (3:15-4:15)***

***Public questions and comments (4:15-4:30)***

***Future Meetings and Task Force Strategy (4:30-5:00)***

- ♦ *Discussion of items to be included in the next meeting agenda*
- ♦ *Next meeting place and date*

***Adjourn***

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**2002 RECYCLED WATER TASK FORCE**

Meeting Dates

Meeting	Date	Place	Remarks
I	April 3 (Wednesday), 2002	CAL/EPA Building, Sacramento	Completed- The minute proceedings is being finalized
	May 8 (Wednesday), 2002	Monterey Conference Center, Monterey	Public hearing session- ACWA's 2002 Spring Conference
II	June 3 (Monday), 2002	Manhattan Beach Marriott, Los Angeles	<a href="#">2002 Annual Water Reuse Research Conference</a>
III	July 12 (Friday), 2002	San Jose	
IV	September 12 (Thursday), 2002	Sacramento	
V	November 19 (Tuesday), 2002	Disneyland Hotel, Anaheim	ACWA's 2002 Fall Conference
VI	January 10 (Thursday), 2003	Sacramento	
VII	February <del>27</del> 26 (Wednesday), 2003	San Francisco	WaterReuse Association, California Section Annual Meeting

## PRESENTATION BY KAMYAR GUIVETCHI

## Water Plan Update 2003 A New Approach

Recycled Water  
Task Force  
June 3, 2002

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## Topics

- California Water Plan Overview
- **Goals and New Approach for Water Plan Update 2003**
- 2001 Accomplishments/Concurrence
- **Water Portfolio**
- Forecasting for 2030
- **Next Steps before Public Draft**

Water Plan Update 2003

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## Water Plan Overview

- **Required by law (Water Code)**
- First Water Plan -Bulletin 3 (1957)
- **Seven Updates (Bulletin 160)**
- Update every five years
  - Last in 1998      Next in 2003
- **State's Master or Strategic Plan**

Water Plan Update 2003

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## Water Plan Purpose

- **Provides framework for state/regional decision makers and investing funds**
- Guides management & development of CA water resources
- **Does not mandate or authorize specific projects**
- Independent of the State Water Project

Water Plan Update 2003

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## Water Plan Content

- **Report basic information on water resources and water infrastructure**
- Estimate current supplies, beneficial uses (agriculture, urban, environment) and water management
- **Forecast plausible supply and use conditions for the future (2030)**
- Identify water management responses to forecasted conditions

Water Plan Update 2003

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Water Plan Update 2003

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## Water Plan Update 2003 DWR Goals

- **Meet Water Code Requirements**
  - Including new legislation (Burton; Machado)
- **Expand public input**
- **Develop a “useful” plan**

*Water Plan Update 2003*

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## Water Plan Update 2003 New Process

- **Use elements of “strategic planning”**
  - Tool to better integrate local, regional, and state water planning and initiatives
- **Use collaborative, stakeholder-based, open, and consensus-seeking process**
  - Promote public input and understanding
  - Involve more diverse stakeholder community

*Water Plan Update 2003*

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## Project Organization and Collaboration



## 2001 Accomplishments

- **Stakeholder-DWR interaction**
- **Concurrence on key features**
  - Water Portfolios for current conditions
  - Building Blocks for future forecasts
- **Assumptions & Estimates Site**
- **Identified next steps**

*Water Plan Update 2003*

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## Expanded AC Membership

- **California Regions**
- **Urban, Ag, and Environment Users**
- **Water Suppliers**
- **Tribal**
- **Environmental Justice**
- **Counties and Cities**
- **Business and Academia**
- **Federal and State Government**

*Water Plan Update 2003*

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## 2001 Concurrence on Key Features

- **Prepare comprehensive state and regional Water Portfolios**
- **Describe current conditions using actual data for 1998 (wet), 2000 (average), and 2001 (dry)**
- **Consider different versions of state's water future (Study Plans)**

*Water Plan Update 2003*

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## 2001 Concurrence on Key Features

- Identify a variety of water management responses
- Consider multiple hydrologies and planning horizons  
– 2010, 2020, 2030, 2050

Water Plan Update 2003

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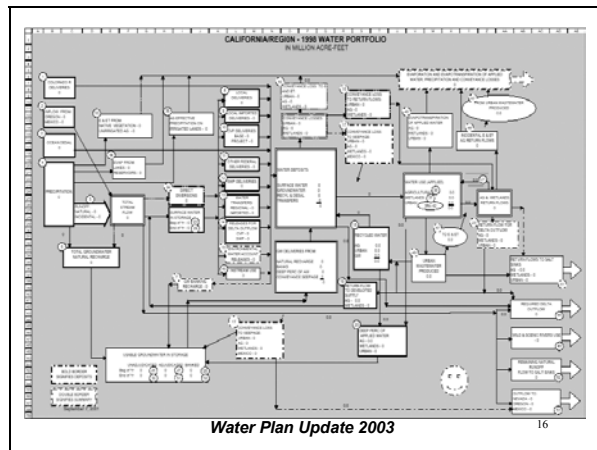


## “Where We Are Now” Water Portfolio

- ~100 Water Supply & Use Categories
  - Water Flow Diagram (See brochure)
  - Water Balance Sheet (Annual Supplies & Uses)
  - Water Quality (SWRCB/RWQCB Nexus)
  - Narratives (Constraints, Decisions)
  - Data Tables (Supplemental Data)
- Prepare Separate Portfolio for 10 Regions, Mountain Co. Area, and Statewide

Water Plan Update 2003

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Water Plan Update 2003

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## “Where We Are Going” Forecasting for 2030

- Consider 4 water demand “futures” and several response options by assembling Building Blocks into different Study Plans.
- Building Blocks are Key Factors (drivers, constraints, options) and their related Ranges (40 Factors and ~150 Ranges).
- Assemble Building Blocks to get state & regional Study Plans (Machado approach).

Water Plan Update 2003

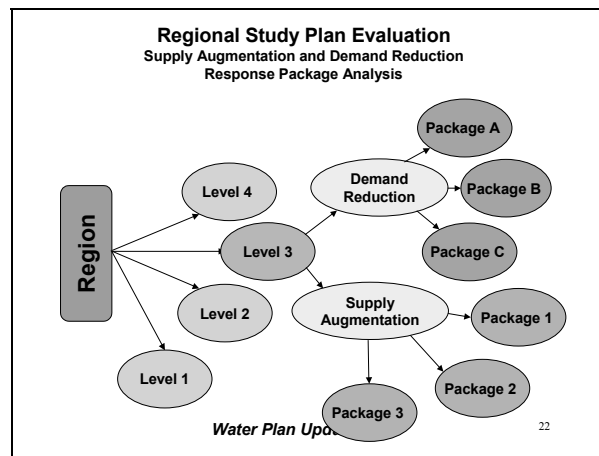
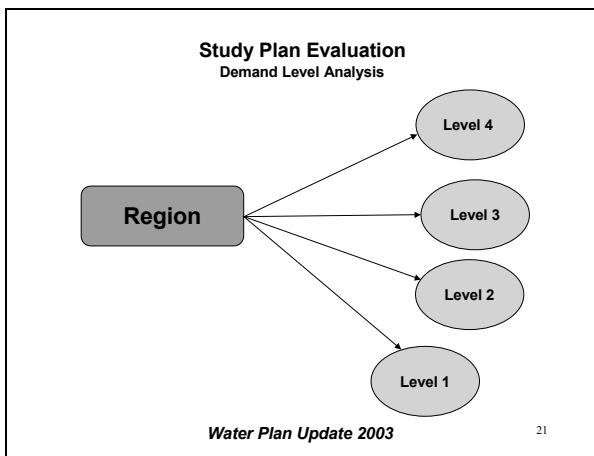
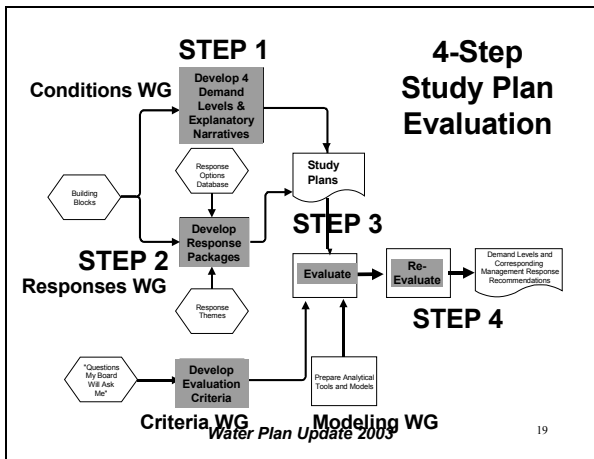
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## Building Blocks (Partial List)

- | <u>Conditions</u>                    | <u>Responses</u>                     |
|--------------------------------------|--------------------------------------|
| • Population, Density & Distribution | • Urban Use Efficiency               |
| • Commercial Activity                | • Ag. Use Efficiency                 |
| • Industrial Activity                | • Recycling & Desal                  |
| • Crop Area & Mix                    | • Water Transfers (within and among) |
| • Envir. Water – Flow                | • GW & SW Integration                |
| • Envir. Water – Land                | • GW & SW Storage                    |
| • Use Efficiency Trend               | • Conveyance                         |

Water Plan Update 2003

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## Next Steps

- Construct Study Plans –Spring/Summer 2002
- Evaluate Study Plans – Summer/Fall 2002
- Release Public Draft *Update 2003* – Summer 2003
- Conduct Public Hearings – Summer 2003
- Release Final *Update 2003* by Dec. 31, 2003

## Goals for Today's Briefing

- Introduce Update 2003 Process
- Summarize 2001 Accomplishments
- Highlight Water Portfolio
- Highlight 2030 Forecast Approach
- Identify Next Steps
- Get Your Input

